

# PURAFIL ENVIRONMENTAL CORROSIONITY REPORT

11-Jun-2010

Company: 111065

Sales Order #: C002697  
CCC Panel #: P67984  
Date In: 21-May-2010  
Date Out: 03-Jun-2010  
Days In Service: 13

Room Area ID:  
Reference #:



**DO NOT TOUCH METAL COUPON**

**Corrosion Classification Coupon**

Company	
Address	
Room/Area I.D. 111065	
Date In 5/21/10	Time In: 11:40 a.m. p.m.
Date Out 6/3/10	Time Out: a.m. 12:00 p.m.
Coupon # 67984	Tracking # 02697
Serial #	
<input type="checkbox"/> Industrial <input type="checkbox"/> ERM <input type="checkbox"/> Preservation <input type="checkbox"/> CIF	

**PURAFIL**  
First...in clean air

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**CCC Panel # P67984**

**ISA Class G2**  
Moderate

**Copper Corrosion**  
835 Å/30 Days

**Silver Corrosion**  
249 Å/30 Days

(see next page for complete analysis)

## Summary for PURAFIL CCC # P67984

The electrolytic reduction analysis on Corrosion Classification Coupon #P67984 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:  
Environmental Health and Eng  
117 Fourth Avenue, Needham MA 02494, USA  
tminegishi@eheinc.com

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**PURAFIL CCC # P67984 Analysis Results**

Corrosion Film Composition				Gold Coupon - Magnified 20x
	Projections			
	30 Days	1 Year	5 Year	
Copper Films				
Cu <sub>2</sub> S	416 Å	1450 Å	3243 Å	
Cu <sub>2</sub> O	155 Å	541 Å	1209 Å	
Unknowns	264 Å	919 Å	2056 Å	
Totals	835 Å	2910 Å	6508 Å	
Silver Films				
AgCl	67 Å	815 Å	4076 Å	
Ag <sub>2</sub> S	108 Å	1314 Å	6570 Å	
Unknowns	74 Å	905 Å	4524 Å	
Totals	249 Å	3034 Å	15170 Å	
Gold Pore Corrosion:				
Note: 1000 Å = 0.1 micron				

**Equipment Reliability Correlation**  
(ISA Standard S71.04-1985 for Copper)